18 45 27 36 CTC GAG ATG CAG AGG AAC CTG GGA GCT GTG CTG GGG ATT CTG TGG GTG CAG ATT [SEQ ID NO: 1] LEMORNLGAVLGILWVOI[SEQIDNO: 2] 72 81 90 99 TGC TGG CTG AAA GAA CAG CAA GTG CAG CAG AGT CCC GCA TCC TTG GTT CTG CAG C W L K E O O V O O S P A S L V L O 117 126 135 144 153 GAG GGG GAG AAC GCA GAG CTC CAG TGT AGC TTT TCC ATC TTT ACA AAC CAG GTG EGENAELOCSFSIFTNOV 189 180 198 207 CAG TGG TTT TAC CAA CGT CCT GGG GGA AGA CTC GTC AGC CTG TTG TAC AAT CCT O W F Y O R P G G R L V S L L Y N P 234 243 252 225 261 TCT GGG ACA AAG CAG AGT GGG AGA CTG ACA TCC ACA ACA GTC ATT AAA GAA CGT SGTKOSGRLTSTTVIKER 279 288 297 306 315 324 CGC AGC TCT TTG CAC ATT TCC TCC TCC CAG ATC ACA GAC TCA GGC ACT TAT CTC R S S L H I S S S O I T D S G T Y L

FIG. 3A



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4/17 Fig.

TGT	GCC	333 TCA				GGA					360 CTA						378 ACT
С	A	S	N	S	G	G	S	N	A	K	L	T	F	G	K	G	T
AAA	CTC					GGT											432 GGT
K	L	S	V	K	S	G	G	G	G	S	G	G	G	G	S	G	G
GGA	GGC	441 TCA	GAG	GCT		GTC											
G	G	S	E	A	A	V	T	Q	S	P	R	N	K	V	A	V	T
GGA	GGA	495 AAG		ACA		AGC										ATG	540 TAC
GGA G					TTG		TGT	AAT 								ATG M	
G	 G	AAG K 549	GTG V	T	TTG L 558	AGC	TGT C	AAT N 567	CAG Q	ACT T	AAT N 576	AAC N	CAC H	AAC N 585	AAC N	 M	TAC Y 594
G	 G	AAG K 549	GTG V	T	TTG L 558	AGC S S	TGT C	AAT N 567 GGG	CAG Q CTG	ACT T	AAT N 576	AAC N	CAC H	AAC N 585	AAC N	 M	TAC Y 594
G TGG	G TAT Y	AAG K 549 CGG R	GTG V CAG Q	T GAC	TTG L 558 ACG T 612	AGC S S	TGT C CAT H	AAT N 567 GGG G 621	CAG Q CTG L	ACT T AGG R	AAT N 576 CTG L 630	AAC N ATC	CAC H CAT H	AAC N 585 TAT Y	AAC N TCA S	TAT	TAC Y 594 GGT G 648

FIG. 3B



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to

657 666 675 684 693 702 AGC CAA GAG AAC TTC TCC CTC ATT CTG GAG TTG GCT ACC CCC TCT CAG ACA TCA SOENFSLILELATPSOTS 711 720 729 738 GTG TAC TTC TGT GCC AGC GGT GAG ACA GGG ACC AAC GAA AGA TTA TTT TTC GGT V Y F C A S G E T G T N E R L F F G 765 774 783 792 801 CAT GGA ACC AAG CTG TCT GTC CTG ACT AGT AAC TCC ATC ATG TAC TTC AGC CAC H G T K L S V L T S N S I M Y F S H 828 837 846 855 F V P V F L P A K P T T T P A P R P 873 882 891 900 909 CCA ACA CCG GCG CCC ACC ATC GCG TCG CAG CCC CTG TCC CTG CGC CCA TCT AGT PTPAPTIAS QPLS L R PS S 927 936 945 954 963 TCT AGA GAT CCC AAA CTC TGC TAC CTG CTG GAT GGA ATC CTC TTC ATC TAT GGT S R D P K L C Y L L D G I L F I Y G

FIG. 3C



								į	·								
		981			990			999			1008		:	1017		1	1026
GTC	ATT	CTC	ACT	GCC	TTG	TTC	CTG	AGA	GTG	AAG	TTC	AGC	AGG	AGC	GCA	GAC	GCC
V	I		T	A	L	F	L L	R	v	K	F	S	R	S	A	D	A
		1035			1044			1053			1062			1071		1	1080
CCC	GCG	TAC	CAG	CAG	GGC	CAG	AAC	CAG	CTC	TAT	AAC	GAG	CTC	AAT	CTA	GGA	CGA
P	A	Y	Q	Q	G	Q	N	Q	L	Y	N	-	L	N	L	G	R
		1089			1098			1107			1116			1125		1	1134
AGA	GAG	GAG	TAC	GAT	GTT	TTG	GAC	AAG	AGA	CGT	GGC	CGG	GAC	CCT	GAG	ATG	GGG
R	E	E	Y	D	V	r 	D	K	R	R	G	R	D	P	 E	M	G
		1143			1152			1161			1170			1179		1	1188
GGA	AAG	CCG				AAC											
G	K	P	R	R	K	N	P	Q	E	G	L	Y	N	E	L	Q	K
		1197		:	1206			1215			1224			1233		1	1242
GAT	AAG	ATG	GCG	GAG	GCC	TAC	AGT	GAG	ATT	GGG	ATG	AAA	GGC	GAG	CGC	CGG	AGG
D	K	M	A	E	A	Y	S	E	Ι	G	M	K	G	£	R	R	R
	1	251		1	260		1	269		1	278		1	287		1	296
GGC	AAG	GGG	CAC	GAT	GGC	CTT	TAC	CAG	GGT	CTC	AGT	ACA	GCC	ACC	AAG	GAC	ACC
G	K	G	Н	D	G	L	Y	Q	G	L	\$	T	A	T	K	D	T
	1	305		1	314		1	323		1	.332						
TAC	GAC	GCC	CTT	CAC	ATG	CAG	GCC	CTG	CCC	CCT	CGC	TAA					
Y	D	A	L	Н	М	Q	λ	L	P	P	R	*					

FIG. 3D



ATG AAA TCC TTG AGT GTT TCC CTA GTG GTC CTG TGG CTC CAG TTA AAC TGG GTG [SEQ ID NO: 43] Met Lys Ser Leu Ser Val Ser Leu Val Val Leu Trp Leu Gln Leu Asn Trp Val [SEQ ID NO: 44] CAG AGC CAG CAG AAG GTG CAG CAG AGC CCA GAA TCC CTC AGT GTC CCA GAG GGA Gln Ser Gln Gln Lys Val Gln Gln Ser Pro Glu Ser Leu Ser Val Pro Glu Gly GGC ATG GCC TCT CTC AAC TGC ACT TCA AGT GAT CGC AAT TTT CAG TAT TTC TGG Gly Met Ala Ser Leu Asn Cys Thr Ser Ser Asp Arg Asn Phe Gln Tyr Phe Trp TGG TAC AGA CAG CAT TCT GGA GAA GGC CCC AAA GCA CTG ATG TCC ATC TTC TCT Trp Tyr Arg Gln His Ser Gly Glu Gly Pro Lys Ala Leu Met Ser Ile Phe Ser

FIG. 7A

12/17

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GAT GGT GAC AAG AAA GAA GGC AGA TTC ACA GCT CAC CTC AAT AAG GCC AGC CTG Asp Gly Asp Lys Lys Glu Gly Arg Phe Thr Ala His Leu Asn Lys Ala Ser Leu CAT GTT TCC CTG CAC ATC AGA GAC TCC CAG CCC AGT GAC TCC GCT CTC TAC TTC His Val Ser Leu His Ile Arg Asp Ser Gln Pro Ser Asp Ser Ala Leu Tyr Phe TGT GCA GTT ATG GAT TAT AAC CAG GGG AAG CTT ATC TTT GGG CAG GGT ACC AAG Cys Ala Val Met Asp Tyr Asn Gln Gly Lys Leu Ile Phe Gly Gln Gly Thr Lys TTA TCT ATC AAG CCC 3' Leu Ser Ile Lys Pro

13/17

ATG	GGC	9 TCC		CTC	18 TTC			-						45 GCA			-	[SEQ	ID	NO:	45]
Met	Gly	Ser	Arg	Leu	Phe	Phe	Val	Val	Leu	Ile	Leu	Leu	Cys	Ala	Lys	His	Met	[SEQ	ID	NO:	46}
GAG			GTC	ACC	CAA	AGT	CCA	AGA	AGC	AAG	GTG	GCA	GTA			GGA	108 AAG				
Glu				Thr											Gly	Gly	Lys				
GTG	ACA	117 TTG		TGT										153 TAC		TAT	162 CGG				
Val	Thr	Leu	Ser	Cys	His	Gln	Thr	Asn	Asn	His	Asp	Tyr	Met	Tyr	Trp	Tyr	Arg				
				CAT	GGG 	CTG 	AGG 	CTG 	ATC	CAT	TAC	TCA	TAT		GCT						
Gln	Asp	Thr	Gly	His	Gly	Leu	Arg	Leu	Ile	His	Tyr	Ser	Tyr	Val	Ala	Asp	Ser				

FIG. 7C

		225			234			243			252			261			270
ACG	GAG	AAA	GGA	GAT	ATC	CCT	GAT	GGG	TAC	AAG	GCC	TCC	AGA	CCA	AGC	CAA	GAG
Thr	Glu	Lys	Gly	Asp	Ile	Pro	Asp	Gly	Tyr	Lys	Ala	Ser	Arg	Pro	Ser	Gln	Glu
					000			000			206			215			20.
AAT	TTC	TCT	CTC	ATT	CTG	GAG	TTG	GCT	TCC	CTT	TCT	CAG	TCA	GCT	GTA	TAT	TTC
Asn	Phe	Ser	Leu	Ile	Leu	Glu	Leu	Ala	Ser	Leu	Ser	Gln	Ser	Ala	Val	Tyr	Phe
		333			342			351			360			369			378
TGT	GCC	AGC	AGC	GAT	TTC	GCC	GGG	ACA	GGG	GGC	TTC	TAT	GAA	CAG	TAC	TTC	GGT
Cys	Ala	Ser	Ser	Asp	Phe	Ala	Gly	Thr	Gly	Gly	Phe	Tyr	Glu	Gln	Tyr	Phe	Gly
		387			396												
CCC	GGC	ACC	AGG	CTC	ACG	GTT	TCT	31									
Pro	Gly	Thr	Arg	Leu	Thr	Val	Ser										

41.

FIG. 7D

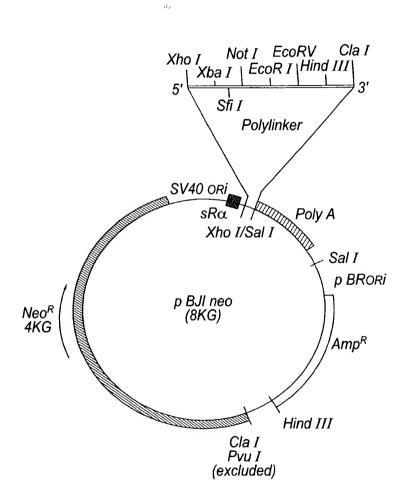


FIG. 8